METHOD AND SYSTEM FOR ENCODING WIDE STRIPED CELLS

ABSTRACT OF THE DISCLOSURE

A system and method for encoding wide striped cells that carry packets of data across stripes. The method encodes an initial block of a first wide striped cell is encoded with initial cell encoding information, and distributes initial bytes of packet data into available space in the initial block of the first wide striped cell. The initial cell encoding information includes control information and state information. One initial block of the first wide striped cell comprises five subblocks corresponding to five stripes. Each subblock includes identical control information and identical state information. The method further includes adding reserve information to available bytes at the end of the initial block of the first wide striped cell. Remaining bytes of packet data are distributed across one or more blocks in the first wide striped cell until an end of packet condition is reached or a maximum cell size is reached. Other steps include encoding the first wide striped cell or another wide striped cell with end of packet information. The end of packet information varies depending upon a set of end of packet conditions, such as, whether the end of packet occurs at the end of an initial block, at the end of the initial block, within a subsequent block, at a block boundary, or at a cell boundary.

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